

Jacobs School of Engineering CORPORATE AFFILIATES PROGRAM

Welcome CAP Executive Board Thursday, October 11, 2018



CAP Chairman



Nik Devereaux

Director of Software Engineering, Viasat

Welcome



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Welcome New CAP Partners







About Us

- Umbrella organization for 40+ engineering student orgs
- Represents all 9000+ undergraduates at the Jacobs School
- Largest operating cost compared to any other student org on campus, with all proceeds going back into council orgs



Caitlyn Liu VP External <u>caitlyn@tesc.ucsd.edu</u>



David Ding SD Hacks 2018 Director Sponsorship Lead david@tesc.ucsd.edu



Colin Feeney TESC President colin@tesc.ucsd.edu

Contact us for any partnership inquiries



Signature Events

SD Hacks – October 12-14, 2018

- San Diego's largest student hack-a-thon
- Over 1,000 students
- Recruit students in action



DECaF – January 17, 2019

- Only career fair exclusively for engineers
- 2,000+ students across 6 departments
- 60+ companies, including many CAP Partners



Student TIP Presentations





GoDaddy

SmartReply for SmartLine

Will Chen, MS, Electrical Engineeering Siddharth Dinesh, MS, Computer Science

October 11, 2018



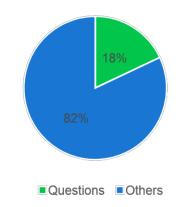
GoDaddy

Motivation

Why did we build what we built?

Motivation (continued)

- SmartLine app, designed for business owners, provides a second phone number for users to contact their customers
 Incoming Messages
- 50% of app events are texts
- 18% of texts are questions
- Users need to answer repetitive questions
 - "What time do you open?"
 - "What's your address?"
- Time-consuming and inconvenient
- Need a response suggestion feature
- Typing an entire response \rightarrow two clicks





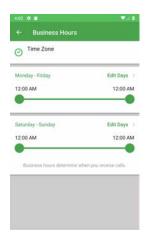
How do we form responses to incoming messages related to business hours?

Classify various intents for business related questions

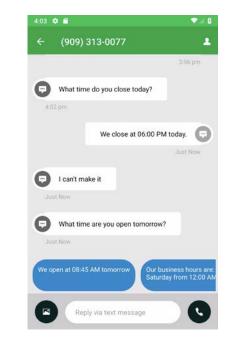
- Hours, location, appointments, etc.
- Give responses tailored for these types of questions

Get information of business hours users set on their phones

- Readily available information
- Existing SmartLine feature



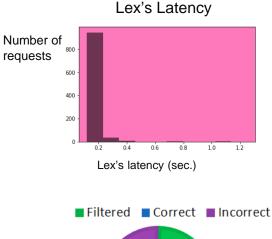
Form responses using the information



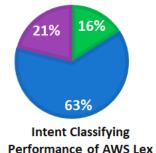
Classifying Intents using AWS Lex Business hours, location, appointments

Model Performance with AWS Lex

Augmenting Responses with Stanford Language Parser Detect yes-no questions



Evaluation of



Response Examples

Incoming Message	Suggested Responses
 "What time do you open in the morning?" 	 "Our hours tomorrow are 09:00 AM - 05:00 PM" "We open at 09:00 AM tomorrow" "Our business hours are: Weekdays from 09:00 AM to 05:00 PM, Weekends from 09:00 AM to 01:00 PM"
Are you open Saturday?	 "Yes, we are open on Saturday" "Our hours on Saturday are 09:00 AM – 01:00 PM" "We open at 09:00 AM on Saturday" "Our business hours are: Weekdays from 09:00 AM to 05:00 PM, Weekends from 09:00 AM to 01:00 PM" "Sorry, we are closed Saturday"



What about questions that are not related to business hours?

• What about other questions for which we don't have information to form answers?

• Look for answers in a user's chat history

- Text matching and nearest neighbor methods to retrieve potential past answers
- Will help us provide responses for both the general business questions (eg. Location) and user-specific questions (eg. Dog training)

Going from Data to Predictions

- Message Embeddings
 - Convert a message to a sequence of numbers
 - Preserve the semantic meaning
- Finding Nearest Neighbors
 - Similar embeddings have similar meanings
 - Retrieve the corresponding outgoing messages



yes what time what time are you available Do you deliver? Do you offer free delivery? whats your address where are you located? where are we meeting what should I do if my dog bites what do I need to do if my dog bites what video should I watch if my dog bites how to train my dog

Google's Sentence Encoder: https://www.tensorflow.org/hub/modules/google/universal-sentence-encoderlarge/3 Spotify's Annoy: https://github.com/spotify/annoy

16 Copyright© 2018 GoDaddy Inc. All Rights Reserved.

0.6

- 0.4

- 0.2

-0.0

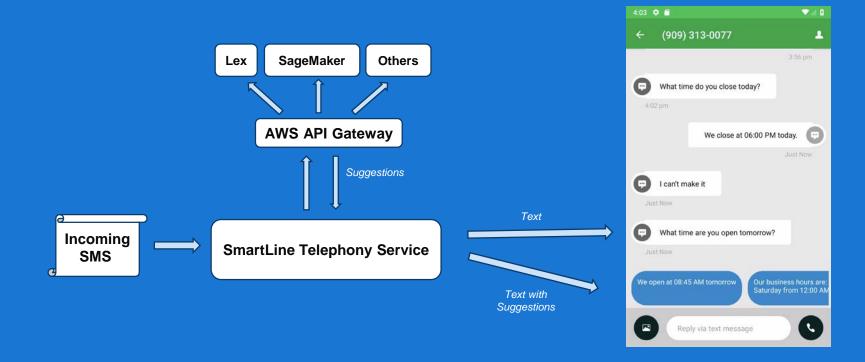
Incoming Message	Similar Past Incoming Messages	Retrieved Responses
 "Where is your business located?" 	 "Where is your warehouse located?" "Where is your store located?" "Where is your store located " 	 "Off of Reno and Council Rd" "In OKC off of Reno and Council." "Off of W. Reno and Council Rd. "
 "what should I do if my dog bites?" 	• N.A.	• N.A.

GoDaddy

System Architecture

How do we build a platform to support these solutions?

System Architecture



19 Copyright© 2018 GoDaddy Inc. All Rights Reserved.



Thank you!

UC San Diego

JACOBS SCHOOL OF ENGINEERING Team Internship Program







Variable Supersonic Inlet TIP

Final Presentation

Bryn Henning, Guinevere Keller, Graham Martin, Jonathan Rodriguez

9/5/18

xClass item identifier: CLS09927276 U.S. Export Classification: EAR 9E991

Introductions

Bryn Henning

- Fourth year mechanical engineer
- Three-time board member for UCSD SWE

Guinevere Keller

- Fourth year mechanical engineer
- Designs rocket engines in UCSD SEDS

Graham Martin

- Fourth year structural engineer
- Throws Javelin for UCSD Track and Field

Jonathan Rodriguez

- Fourth year aerospace engineer
- Builds AUV's for UCSD Yonder Deep





Background





Deciding Between Models

Concorde

- Commercial Airliner
- Mach 2.2
- 2D Duct



SR-71

- Military Aircraft
- Mach 3+
- Axisymmetric



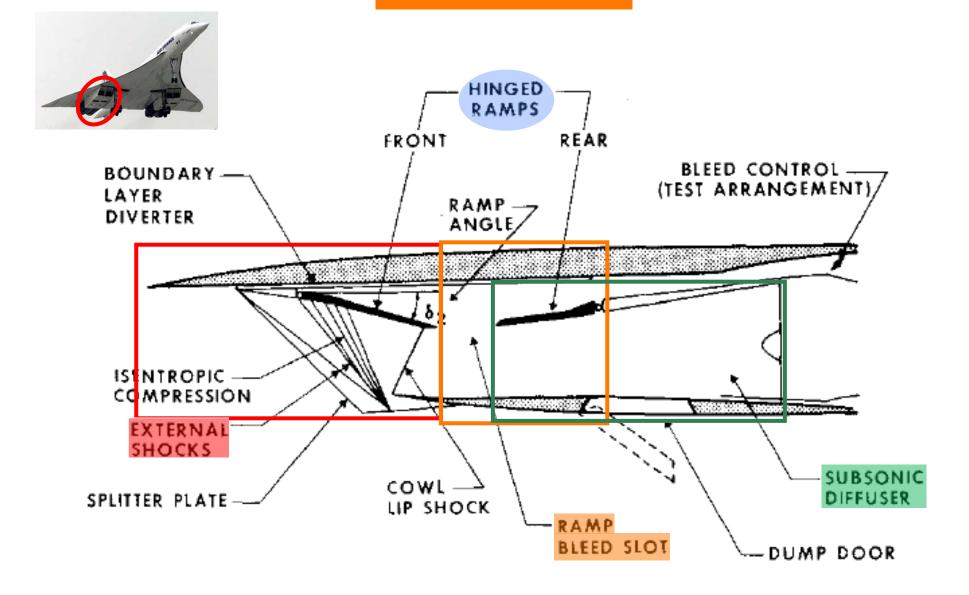
Concorde design was selected



Generating Aerolines





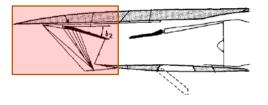


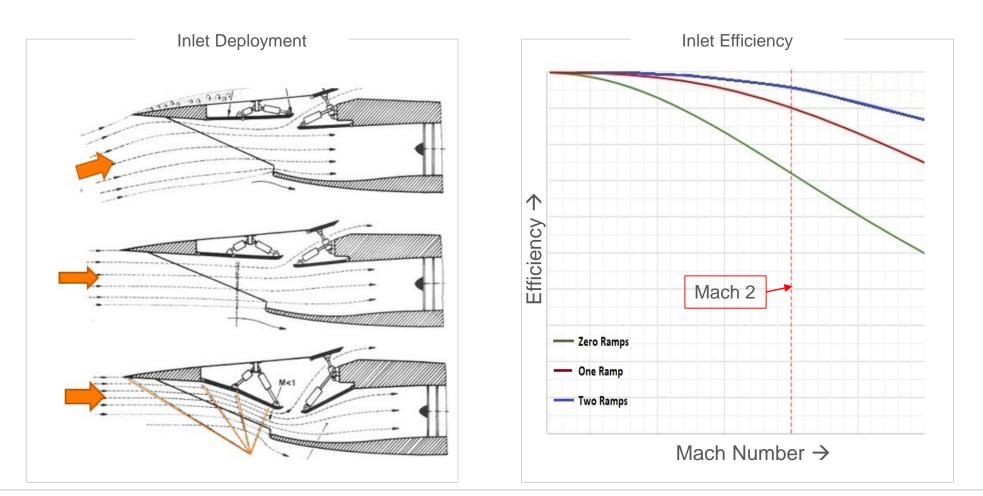
The inlet can be divided into three main sections.





External Diffuser



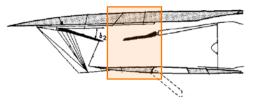


Inlets with more ramps have higher fan efficiency



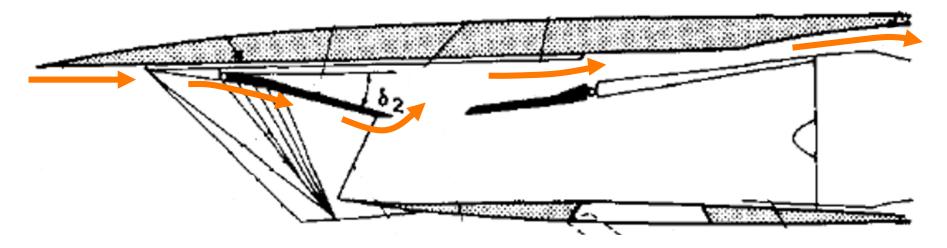






Boundary Layer and Bleed

- Low-momentum boundary layer develops along ramps
- Flow must be "bled" to maximize stability
- Bleed bypasses fan

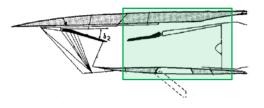


Modeling the boundary layer is critical to achieving fan stability



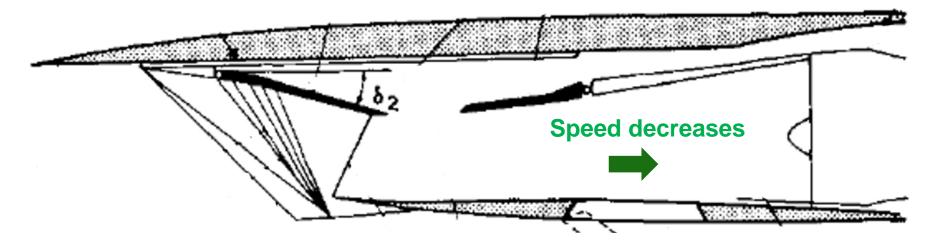


Subsonic Diffuser



Finding Flow Properties

- Compiled equations into a versatile MATLAB code
- Calculated the fan to throat area ratio
- Determined pressure on the bleed ramp



Diffuser sizing is driven by incoming Mach number



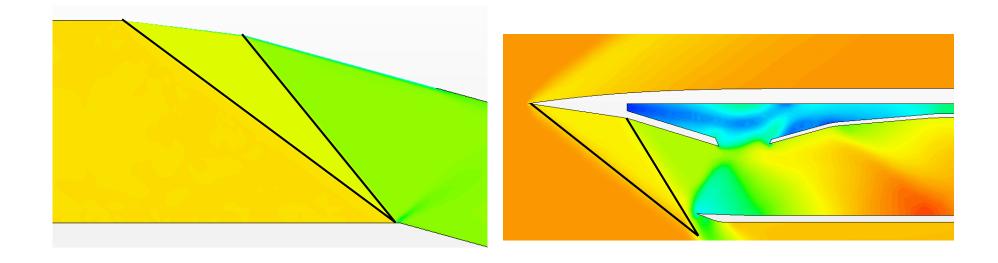
Validating Aerolines





CFD Shock Wave Results

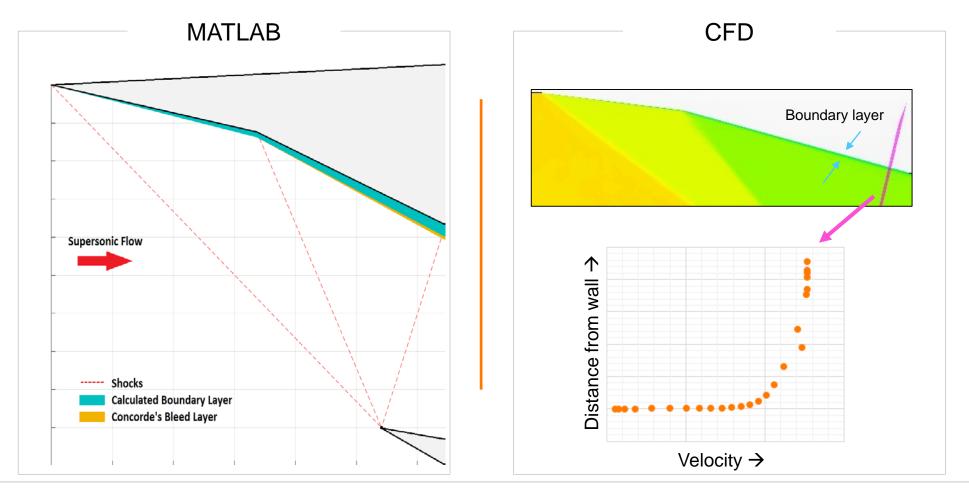
- MATLAB solutions are verified with CFD
- Oblique shocks form at ramps and coincide at focal point



CFD validates that external diffuser successfully forms oblique shocks



CFD Boundary Layer Results



CFD & MATLAB validate the mass flow bleed



Mechanisms





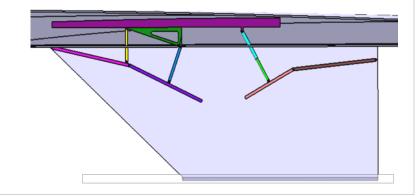
Design Comparisons

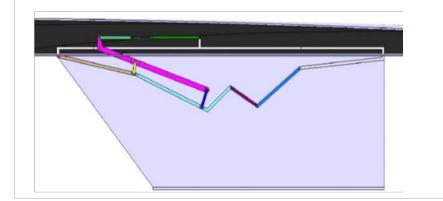
Shuttle System Design

- ✓ Less Complex
- ✓ More compact
- x Less efficiency
- x Two actuators required

Lever System Design

- ✓ Single actuator
- ✓ Efficient off-design conditions
- x Larger force
- x Sustainability issues

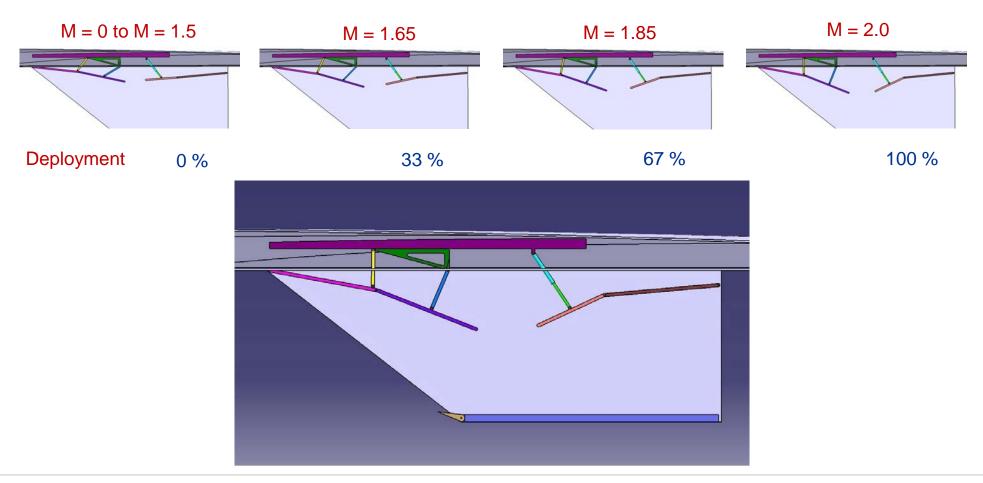




While each design has disadvantages, both are feasible and novel kinematic solutions



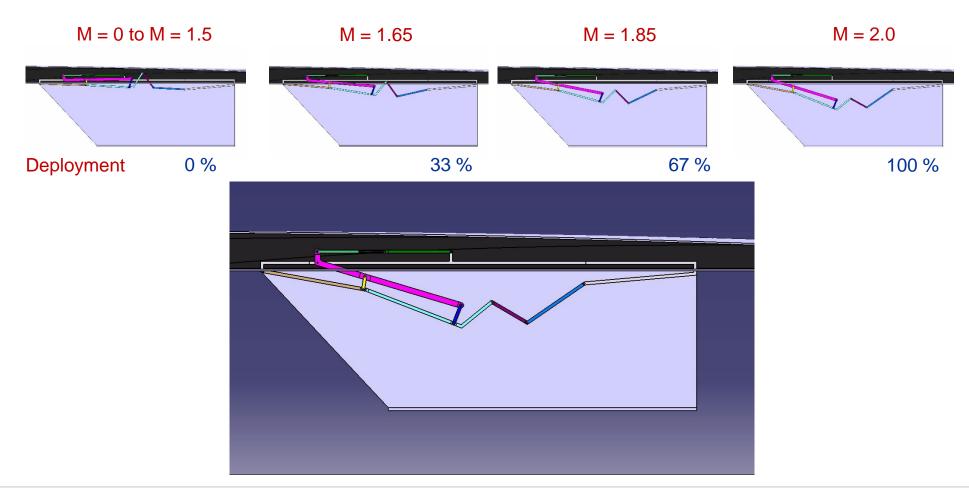
Shuttle System Deployment



As Mach number increases, ramp angles increase



Lever System Deployment



As the actuator retracts, the ramps are lowered via a long lever

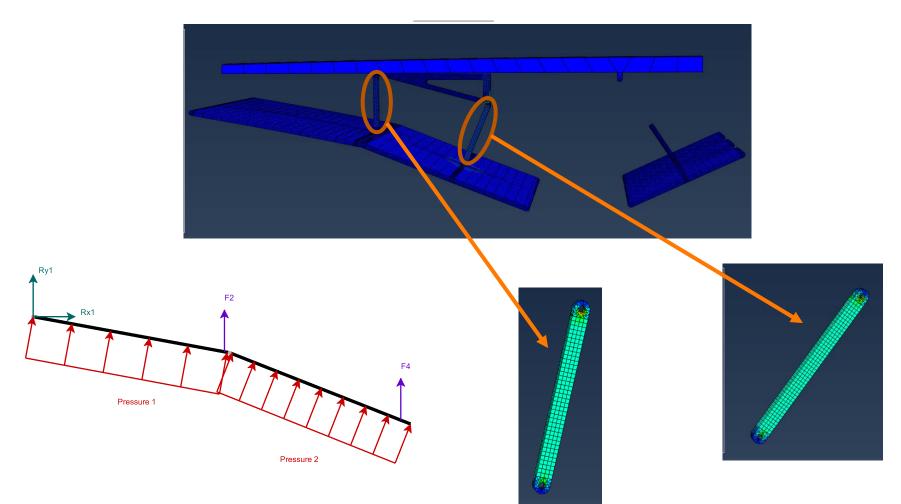


Next Steps





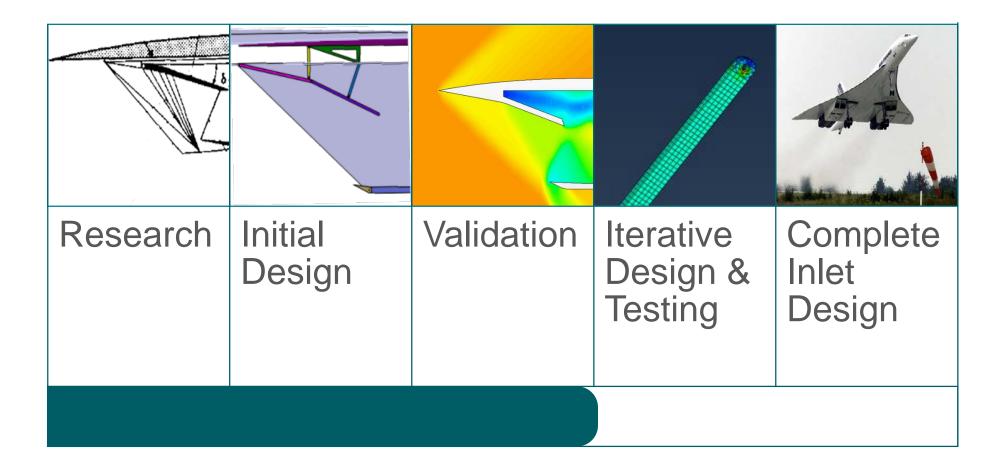
Stress Analysis and Comparison



MATLAB code disagrees with ABAQUS solutions



Path to Product Introduction



The scope of the internship covered initial research and designs for a variable geometry inlet.



Thank You

UCSD TIP

Rocio de Lis & Erica Kosa

PROJECT LEADS

Steve Kestler & Christian Soria

MANAGMENT & CAREER GUIDANCE

Jeff Anderson

MECHANISM DESIGN

AJ Lacko, Johann Schrell, Peter Aziz, Michael Cochran, & Doris Stumps

TECHNICAL GUIDANCE

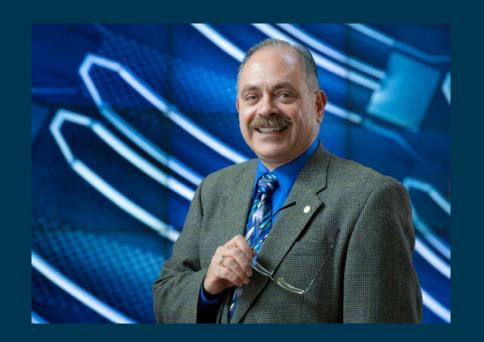
Ann Khidekel, Tim Gormley, Mike Aten, & Aaron Noel

SPECIAL THANKS

Teresa Kruckenberg, Dean Albert Pisano, & all those in attendance



DEAN'S BRIEF



Albert P. Pisano

Dean, Jacobs School of Engineering

Securing Excellence



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Jacobs School Continues to Impress

Raising up the rankings

#12 Best Engineering School#7 Best Public Engineering School

2,722 Degrees Conferred in 2018

#3 Overall baccalaureate degrees conferred#2 Female baccalaureate degrees conferred

8,944 Students Enrolled Fall 2018

#1 largest public engineering school on west coast25% female (national average 17.5%)

\$178.9M in Research Expenditures

#1 Public Institution, \$850K+ per faculty member





JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program



90 NEW FACULTY IN 5 YEARS



Tes 1

15 Faculty Join the Jacobs School in 2018

Engineering design, MEMS/NEMS

TZU-CHIEN HSUEH

ELECTRICAL & COMPUTER ENGINEERING

Senior Research Scientist, Intel Corporation

MECHANICAL & AEROSPACE ENGINEERING

MECHANICAL & AEROSPACE ENGINEERING

TANIA MORIMOTO

Soft robotics, surgical robotics, haptics

IC for comms systems, data centers and networks

EXPERTISE:

EXPERTISE:

EXPERTISE:

EXPERTISE:

MOST RECENTLY:

MOST RECENTLY:

Ph.D. student, Stanford

Computational flow physics

MOST RECENTLY:

MOST RECENTLY:

MECHANICAL & AEROSPACE ENGINEERING

Postdoctoral Researcher, University of Pennsylvania



JINHYE BAE NANOENGINEERING

EXPERTISE: Soft materials, polymer science, materials characterization MOST RECENTLY: Postdoctoral Research Associate, Harvard University



JUSTIN ELDRIDGE **COMPUTER SCIENCE & ENGINEERING**

EXPERTISE: Machine learning, data science MOST RECENTLY: Presidential fellow, The Ohio State University



AARON FRAENKEL **COMPUTER SCIENCE & ENGINEERING**

EXPERTISE: Machine learning MOST RECENTLY: Senior Scientist, Amazon



JON POKORSKI NANOENGINEERING

EXPERTISE: Polymer chemistry, biomedical engineering MOST RECENTLY: Assistant Professor, Case Western Reserve University



ABHISEK SAHA MECHANICAL & AEROSPACE ENGINEERING

EXPERTISE: Combustion, propulsion, power generation, materials MOST RECENTLY: Research Staff, Princeton University

UC San Diego

JACOBS SCHOOL OF ENGINEERING **Corporate Affiliates Program**











NICOLE STEINMETZ NANOENGINEERING EXPERTISE: Chemical biology, plant-virus based nanomaterials

Postdoctoral Scholar, California Institute of Technology

MOST RECENTLY: Professor, Case Western Reserve University



TAYLOR BERG-KIRKPATRICK COMPUTER SCIENCE & ENGINEERING

EXPERTISE: Machine learning, data science

MOST RECENTLY: Assistant Professor, Carnegie Mellon University



JOHN T. HWANG **MECHANICAL & AEROSPACE ENGINEERING** EXPERTISE: Optimization algorithms and materials for aerospace MOST RECENTLY: Research engineer, NASA Glenn Research Center



KENJI NOMURA

ELECTRICAL & COMPUTER ENGINEERING

EXPERTISE: Oxide semiconductor materials, optoelectronics MOST RECENTLY: Principal Engineer, Obsidian Sensors, Inc.



SHABNAM SEMNANI STRUCTURAL ENGINEERING

EXPERTISE: Characterization and modeling of geomaterials

MOST RECENTLY: Ph.D. student, Stanford University



JOHN SANFORD **ELECTRICAL & COMPUTER ENGINEERING**

EXPERTISE: Next generation wireless communications systems

MOST RECENTLY: Chief Technology Officer, Ubiquiti Networks

Recent Faculty Awards



Sheng Xu NanoEngineering MIT Technology Review Top Innovators under 35



Christine Alvarado Computer Science & Engineering \$2M NSF Grant for Early Research Scholars Program



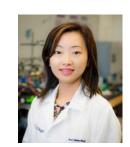
Hadi Esmaeilzadeh Computer Science & Engineering 2018 IEEE Young Computer Architect



Shankar Subramaniam Bioengineering \$12M NIH Grant Metabolomics Workbench



Andrew Kahng Electrical & Computer Engineering \$11.3M DARPA OpenROAD Project



Shirley Meng NanoEngineering \$2.5M DoE Battery research for advanced vehicle technologies



Frank Talke Mechanical & Aerospace Engineering 2018 Galvanizing Engineering in Medicine (GEM)



Mike Tolley Mechanical & Aerospace Engineering 2018 Galvanizing Engineering in Medicine (GEM)



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Agile Research Centers Foster Industry Collaboration



10 Centers Formed Over Past 3 Years



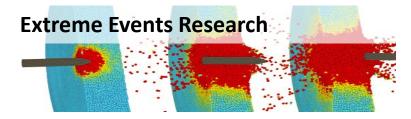
Corporate Affiliates Program

Jacobs School Agile Research Centers

Wearable Sensors and Electronics





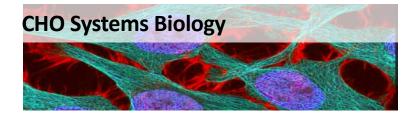




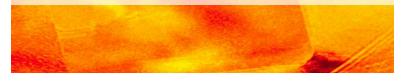


Sustainable Power and Energy





Resilient Materials & Systems





Machine Integrated Computing and Security

Franklin Antonio Hall Opening 2021



- Collaboratories of the Digital Future
- Council on the Digital Future
- Prototyping and Design Facilities; Student Extracurricular Center
- Executive Education Center
- Meeting rooms: small (15), medium (50), and large (100) room capacity
- LEED Platinum
- 275 seat lecture hall

JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

UC San Diego

First Floor a Hub for Education, Innovation and Idea Exchange

- 250 seat auditorium with multiple classes per day
- Multi-purpose rooms for faculty-industrygrad student meetings
- Casual interaction spaces and cafe for "back of the napkin" discussions.
- Executive Outreach Center with meeting space available to Founders Circle Members
- Branding prominently displayed in the lobby for 1,000+ daily views by faculty, students, industry partners and alumni







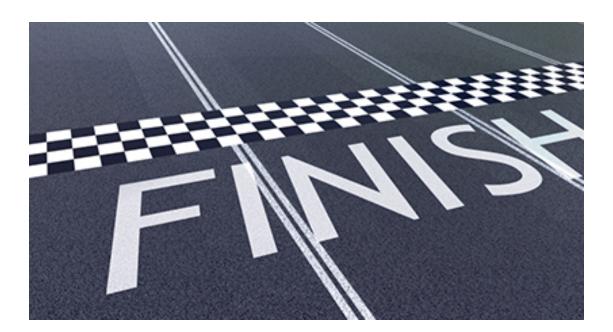
Collaboratory Construct to Enable Accelerated Innovation Ecosystem

- Collaboratory population is 4-10 faculty and research teams (approximately 80 people in 10,000 square foot collaboratory)
- Maximize circulation of people and ideas between faculty, students and industry partners
- Permanent and Prominent branding at entrance to collaboratory conveys the message that you are partnering with UC San Diego's top faculty.



Franklin Antonio Hall Campaign

- \$180 million goal
- \$20 million to the finish line
- Seeking additional partners





Strategic Education Themes Surge Ahead



□Co-Op Pilot
□Systems Engineering
□3/2 Master's Program
✓ Student Success Initiative
✓ Institute for the Global Entrepreneur

 ✓ Project Courses that Introduce and Reinforce Theory



Cooperative Education (Co-op) Pilot

- On track for July-December 2019 Pilot
- Participating departments: CSE, ECE, MAE
- Targeted student cohort
- Pursuing campus approvals to minimize affect on time-to-degree, financial aid



Thank you to those companies that have confirmed participation, finalizing partners December 1, 2018.



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Systems Engineering of the 21st Century

Profe

- CAP Executives submitted case studies and educational outcomes
- Faculty committee reviewed, submitting white paper by end of 2018
- Significant update at Winter 2019 CAP Board Meeting
- Welcome additional representatives on CAP Systems Engineering Subcommittee

Thank you Subcommittee Members:

l essional Skills – lead	ring Practices Pro ndustry Practices lership, communica , Global TEAMs, Ent	tions, social contexts
	Engineering curriculum	

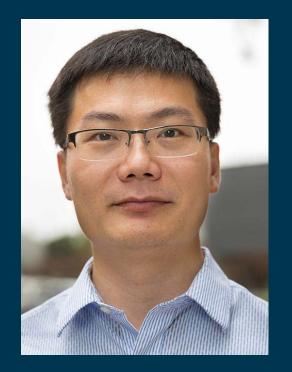
Adam Harris,	An Chen,	Claus Schulze,	GB Singh,	Joel Drake,
Amazon	Qualcomm	OneWeb	Solar Turbines	General Atomics
Karl Umstadter, ASML	Larry Stullich, Northrop Grumman	Nick Freije, SPAWAR	Nik Devereaux, Viasat	Steve Auerbach, Leidos



Questions, Comments?



Faculty Presentation



Xinyu Zhang

Associate Professor, Electrical & Computer Engineering

Designing Intelligent Internet of Things



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Designing Intelligent Internet of Things

Xinyu Zhang

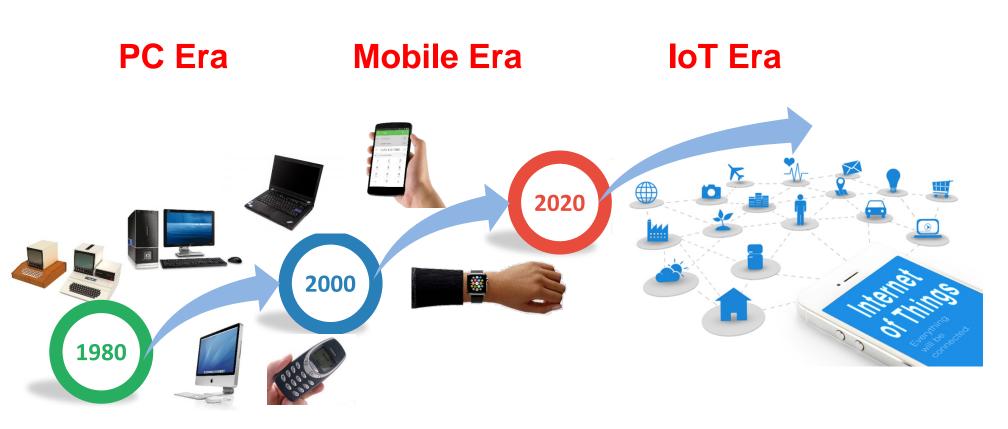
Associate Professor http://xyzhang.ucsd.edu

Department of Electrical and Computer Engineering

University of California San Diego



Evolution of the digital world



Two grand challenges for IoT

Massive connectivity







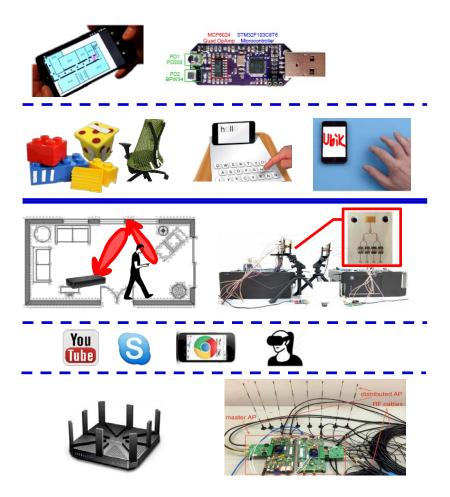
Designing intelligent Internet of Things

Intelligence

Reusing wireless IoT devices to sense "where we are" and "what we are doing"

Connectivity

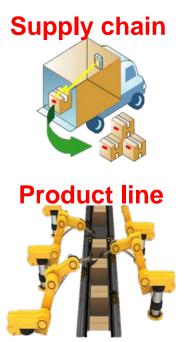
New network architectures/ protocols that address the IoT traffic explosion



IoT: Intelligence

Tagyro: Sensing orientation of batteryless objects

Applications in the IoT space



Smart homes



"Internet of Toys"



Tagyro: Sensing orientation of batteryless objects

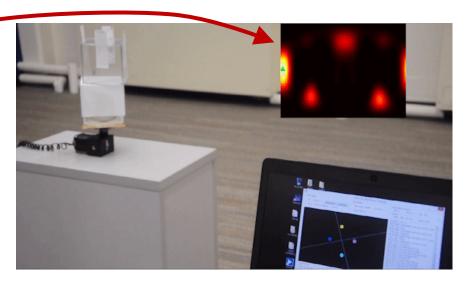
Orientation sensing system setup



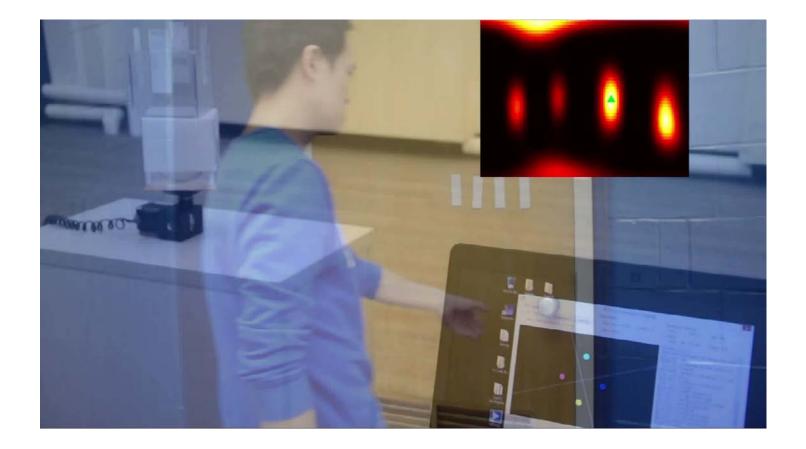


A computational model for phase-orientation, at 2° precision and 30 ms latency!

* "Gyro In the Air: Tracking 3D Orientation of Batteryless Internet of Things", Teng Wei, Xinyu Zhang, ACM MobiCom'16

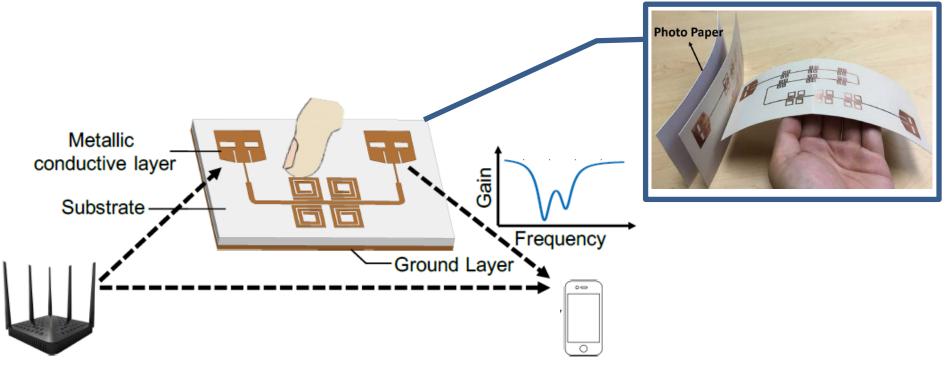


Tagyro for smart homes



Sensing touch on batteryless objects

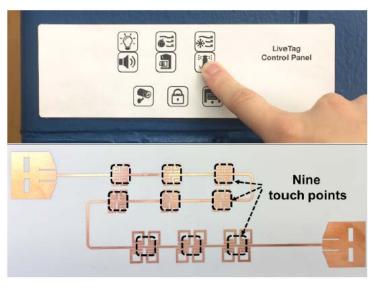
LiveTag: wireless, chipless, batteryless touch sensing



Sensing touch on batteryless objects

LiveTag: use cases

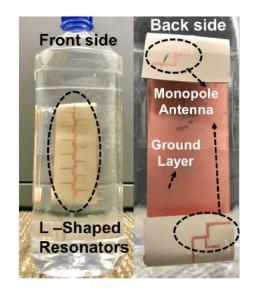
In smart homes



On smart textile



Dehydration sensing

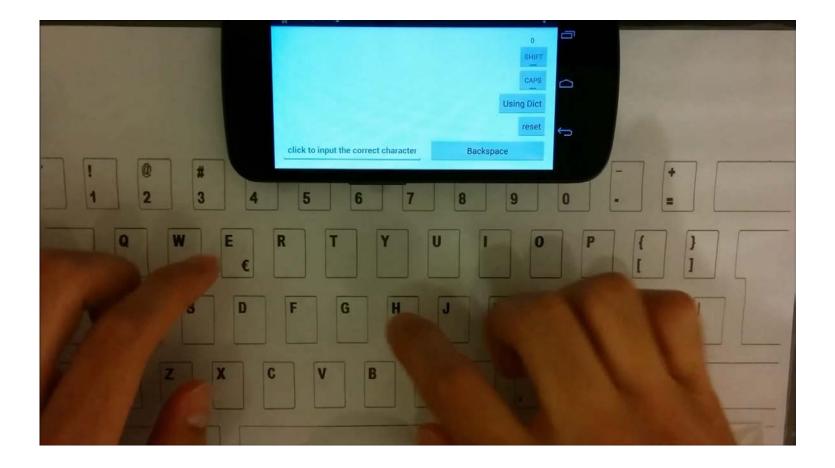


Sensing interaction with small mobile devices > How to overcome the touchscreen bottleneck? Mobile device size

Finger size 1970 2017 Mow to interact with future IoT devices?

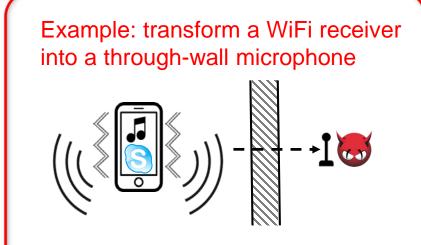
UbiK

* "Ubiquitous Keyboard for Small Mobile Devices: Harnessing Multipath Fading for Fine-Grained Keystroke Localization", Junjue Wang, Kaichen Zhao, Xinyu Zhang, Chunyi Peng, ACM MobiSys'14



Security implications of intelligent IoT

Wireless "things" may become privacy leakers that cannot be fixed by digital encryption

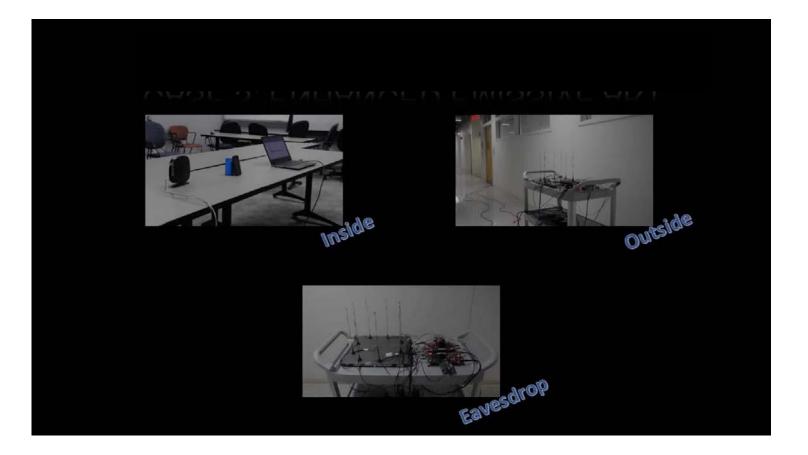


* "Acoustic Eavesdropping Through Wireless Vibrometry", Teng Wei, Shu Wang, Anfu Zhou, Xinyu Zhang, ACM MobiCom'15

Security implications of intelligent IoT

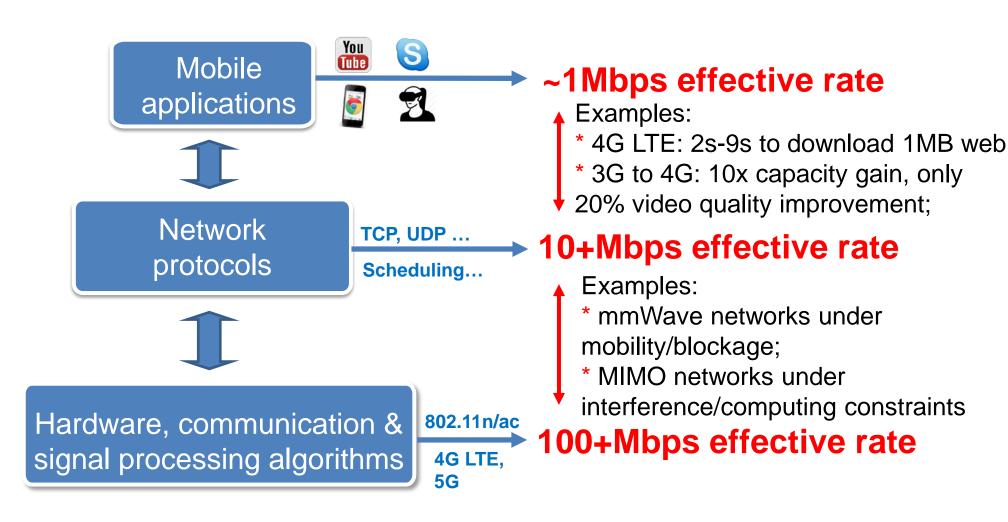


Security implications of intelligent IoT



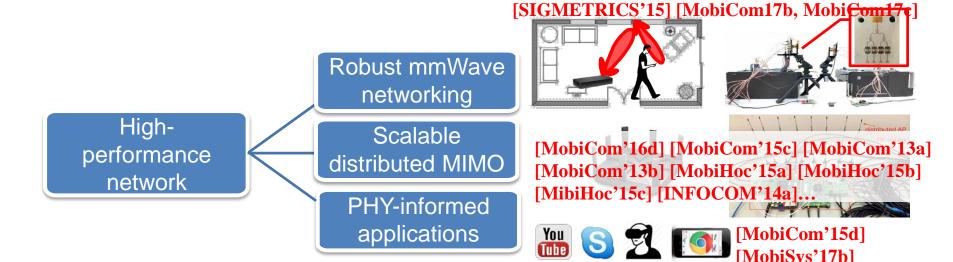
IoT: Connectivity

IoT: the connectivity challenge



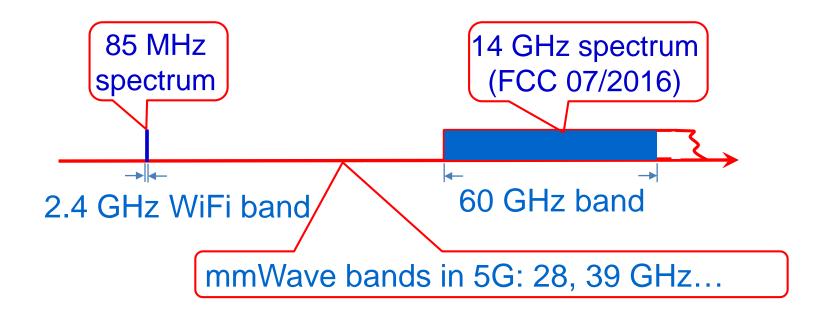
IoT massive connectivity: Solution

- Goal: Design network architectures to connect the IoT wireless devices with wire-speed, low-power, and high scalability
- Approach: Physical-layer informed network architectures to bridge the performance gaps across layers [NSDI'17] [INFOCOM'17] [NSDI'16] [MobiCom'16c]





>mmWave eliminates the spectrum crunch



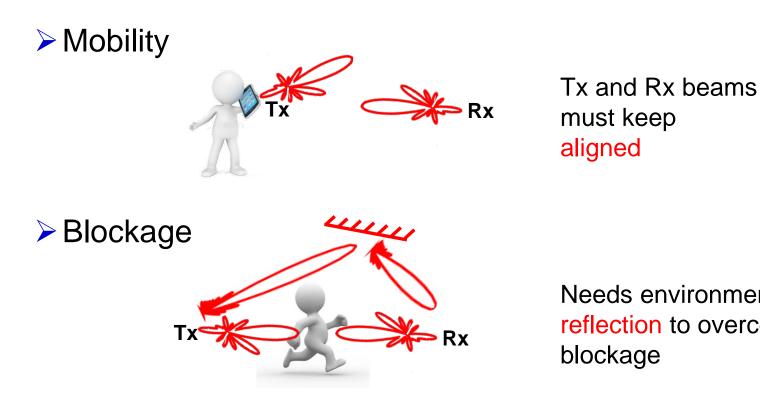
Basic characteristics of mmWave links

Shorter wavelengths, higher attenuation

- Use highly directional, electronically steerable phased-arrays to overcome propagation loss
 - Introduces new challenges: blockage, mobility



Basic characteristics of mmWave links



Needs environment reflection to overcome blockage

mmWave links: short-range, point-to-point use cases

Cordless computing



Wireless backhaul



More demanding use cases for mmWave

Instant file sync



UHD virtual reality



V2X/V2V context sharing



3D video surveillance



Enabling seamless coverage and mobility for 5G mmWave networks

Efficient recovery of mmWave links under blockage

* "Facilitating Robust 60 GHz Network Deployment by Sensing Ambient Reflectors", Teng Wei, Anfu Zhou, Xinyu Zhang, USENIX NSDI'17

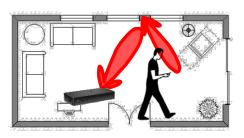
Enabling robust mmWave network deployment by imaging ambient reflectors

* "BeamSpy: Enabling Robust 60 GHz Links Under Blockage", Sanjib Sur, Xinyu Zhang, Parameswaran Ramanathan, Ranveer Chandra, USENIX NSDI'16

Enabling robust mmWave mobile networks

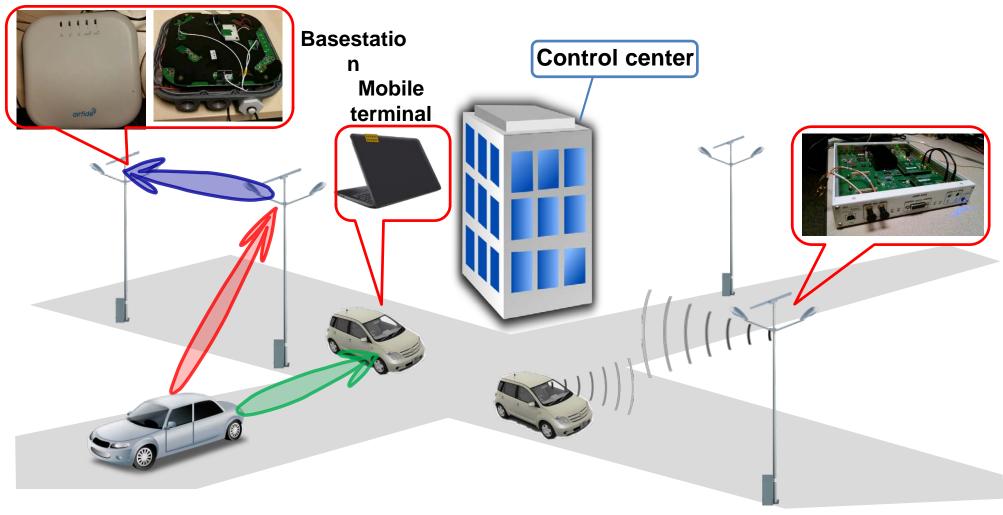
* "Pose Information Assisted 60 GHz Networks: Towards Seamless Coverage and Mobility Support", Teng Wei, Xinyu Zhang, ACM MobiCom'17







Ongoing project: large-scale experiments on a campus-wide 5G V2X testbed





Two grand challenges facing intelligent IoT

- Intelligence
- Connectivity
- Intelligence
 - We can repurpose wireless IoT devices as sensors, to sense our interaction with the physical environment

Connectivity

- We can realize wire-speed connectivity through directional, laser-like radio beams
- > An experiment-driven approach to address IoT challenges!

Thank you!

http://xyzhang.ucsd.edu

CAP BUSINESS



William W. Dyer

Director, Corporate Affiliates Program, Jacobs School of Engineering

CAP Business



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

Jacobs School Corporate Affiliates Program



Corporate Relations Team



Cody Noghera Executive Director Corporate Research Partnerships cnoghera@eng.ucsd.edu (858) 246-0214



Lon McPhail Director Corporate Research Partnerships lmcphail@eng.ucsd.edu (619) 840-7600



William Dyer Director Corporate Affiliates Program wdyer@eng.ucsd.edu (858) 246-0214



Paula Kreger Services Manager Corporate Affiliates Program pkreger@eng.ucsd.edu (858) 534-3148

Assistant Director, Talent Programs

Corporate Affiliates Program

mdelis@eng.ucsd.edu

(858) 822-6772

Rocio de Lis



Martin Lahtov Conference and Special Programs Manager - Agile Research Centers mlahtov@eng.ucsd.edu (858) 822-1033



Luciana Xavier Gibson Associate Director Corporate Partnerships Ixavier@eng.ucsd.edu (858) 534-6254



Kataleeya Cole Executive Assistant capassistant@eng.ucsd.edu (858) 822-4496

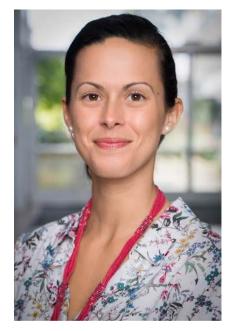


William O'Donohoe Corporate Engagement Research Analyst wodonohoe@eng.ucsd.edu (858) 666-5187

JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

New!

Meet our new Team Member



Rocio de Lis Assistant Director, CAP Talent Programs

Ready to achieve your talent goals!

As the Assistant Director, Rocio:

- Leads all CAP Talent Programming
- Develops recruiting strategies with CAP Partners
- Manages Team Internship Program (TIP)
- Advertises jobs/internships, screens resumes, targets specific students
 - ✓ Internships
 - ✓ Full Time Hires
 - B.S., M.S. & Ph.D

CONTACT ME:

JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

UC San Diego

mdelis@eng.ucsd.edu Office: 858-822-6772 | Cell: (858) 242-6893

Time to Submit your TIP Project!

TEAM INTERNSHIP PROGRAM 2019



WHAT Project-based paid internship, 2-5 pre-screened students

WHEN Recruitment starts NOW - Interns start Summer 2019

HOW

Email us to gather talent requirements and project goals

Together, Industry and Education Drive Innovation

UC San Diego

Team Internship Program

JACOBS SCHOOL OF ENGINEERING

Rocio de Lis Assistant Director, Corporate Affiliates Program Talent Programs mdelis@eng.ucsd.edu



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program



Center for Wearable Sensors Research Summit 11.07.18

Our distinguished faculty will present cutting edge research on:

- Textile-based wearable chemical sensors
- Energy-efficient microelectronics for wearable sensors & body-area networks
- Ultra-sensitive graphene-based multi-modal sensors
- Assessing human stress and performance using wearables and "unawearables"

Register at cws.ucsd.edu/wearablesummit



CONTEXTUAL ROBOTICS INSTITUTE

FORUM 2018 HEALTHCARE ROBOTICS NOVEMBER 8

At the Forum, you will:

- Learn about the roles robotic technologies can play in improving healthcare
- Hear presentations from clinicians, industry and academic technologists
- Discuss upcoming challenges and map collaborations
- Meet world-class leaders in healthcare robotics

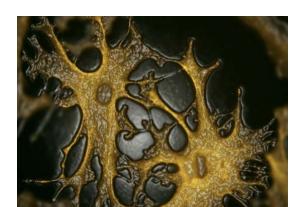
Register at cri.ucsd.edu/forum/2018

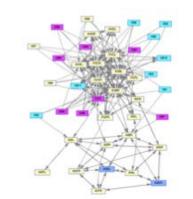
Center for Engineered Natural Intelligence

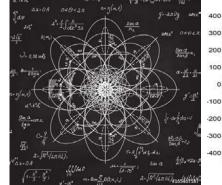
December 4th, 2018 Reserve your seat at the world's first Engineered Natural Intelligence Symposium

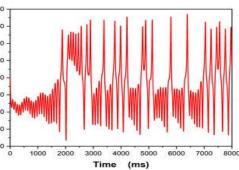
\$149 Pre-registration for CAP Executives (limit 2 ea.) \$299 Open registration

Including invited talks by Microsoft, Brain Corp., U.S. Navy, LLNL, Intel, SDSC, and others.











200+ Graduate-level research posters

Engineering faculty presentations

Connect with students, faculty and industry!

Call for:1. CAP Partner Sponsorship2. CAP Executive Distinguished Judges

Get Inspired 230+ Research Posters



Ted-Style Talks by World-Renown Faculty



2019

500+ Students, Alumni, Industry, Faculty

Wireless Communications Seminar Series Invitation to CAP Partners



Upcoming Speakers

Oct 15: Vinko Erceg - Fellow at Broadcom Oct 22: Ronny Hadani - CTO at Cohere Technologies Oct 29: Frank Van Diggelen - Principal Engineer at Google Nov 5: Steffen Hellmold - VP of Corporate Strategy at Western Digital Nov 19: John Smee - VP of Engineering at Qualcomm Nov 26: John Cioffi - Professor at Stanford University and CEO of ASSIA Dec 3: Vasu Parthasarathy - Technical Director at Broadcom



JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program **GORDON CENTER** Engineering Leadership

Engineering Leadership Forum with Mr. Bernard Gordon

Register Here: http://bit.ly/ENGLeadership

GORDONCENTER.UCSD.EDU



Calit2 Auditorium | October 19, 2018 | 11 a.m. - 12 p.m.

ECE Project Showcase October 20, 11:30a-2:00p



- Over 120 Student Projects in various fields, from Robotics and Machine Learning to Health & Pyschiatry
- Hands-on ECE curriculum showcase
- Register at: ece.ucsd.edu/alumni/homecoming-weekend



All Upcoming Opportunities

- October 12-14, 2018 SD Hacks student-run hack-a-thon
 - Gordon Center Engineering Leadership Forum with Bernard Gordon
 - Electrical & Computer Engineering Homecoming Day
 - Center for Networked Systems (CNS) Research Review
 - Professional Evening with Industry diversity recruitment
 - Center for Wearable Sensors (CWS) Research Summit
 - Contextual Robotics Institute Forum
 - Center for Wireless Communications (CWC) Research Review
 - Center for Engineered Natural Intelligence (CENI) Research Summit
 - Disciplines in Engineering Career Fair (DECaF)

Winter CAP Executive Board Meeting

Jacobs School Research Expo

UC San Diego JACOBS SCHOOL OF ENGINEERING Corporate Affiliates Program

October 19, 2018

October 20, 2018

October 29, 2018

November 7, 2018

November 8, 2018

November 14, 2018

December 4, 2018

January 17, 2019

February 7, 2019

April 18, 2019

October 25-26, 2018

UC San Diego Jacobs School of Engineering

Thank You CAP Executive Board!

Next Board Meeting: February 7, 2019